

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-13. Cancelled.

14. **(Currently Amended)** ~~A method~~Method for the production of a cast component, ~~in particular a gas turbine component, with the following steps~~comprising the steps of:

- a) ~~Provision of~~providing a melting crucible and at least one semi-finished product made of an intermetallic titanium-aluminum material;
- b) ~~Melting~~melting of the semi-finished product or each semi-finished product made of the intermetallic titanium-aluminum material in the melting crucible;
- c) ~~Adding~~adding of a plurality of additional elements or additional compounds to the molten mass ~~in successively in times~~in succession depending on their melting temperature, wherein at least one element and/or one compound with a high melting point is added to the molten mass first, followed by at least one further element and/or one further compound with a lower melting point,
- d) ~~Provision of~~providing a casting mold;
- e) ~~Pouring~~pouring the molten mass into the casting mold;
- f) ~~Hardening~~hardening of the molten mass in the casting mold; and
- g) ~~Removal of~~removing the cast component from the casting mold.

15. **(Currently Amended)** ~~Method~~The method according to claim 14, ~~wherein characterized in that~~wherein refractory additional elements or compounds are added first to the molten mass, followed by volatile additional elements or compounds and, ~~and~~ then, if necessary, fine materials.

16. **(Currently Amended)** ~~Method~~ The method according to claim 15, wherein characterized ~~in that the elements~~ tungsten, tantalum, niobium and, if necessary, titanium or alloys of these elements are added as refractory additional elements to the molten mass.
17. **(Currently Amended)** ~~Method~~ The method according to claim 15, wherein characterized ~~in that~~ manganese or an alloy of this element is added as volatile additional element to the molten mass.
18. **(Currently Amended)** ~~Method~~ The method according to claim 15, wherein characterized ~~in that~~ titanium boride is added as fine material to the molten mass.
19. **(Currently Amended)** ~~Method~~ The method according to claim 14, wherein characterized ~~in that the~~ element or each element and/or the compound or each component is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount is measured such that, assuming a molten mass temperature prior to the addition is attained within 15 minutes after the addition when the temperature after the addition is, ~~the temperature is always greater than 1550° C after the addition, and the temperature before the addition will be reached again after a maximum of 15 minutes.~~
20. **(Currently Amended)** The method ~~Method~~ according to claim 14, wherein characterized ~~in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount has a maximum weight of 250 g at an element and/or compound density of greater than 6 g/cm³.

21. **(Currently Amended)** ~~The method~~Method according to claim 14, wherein ~~characterized in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount has a maximum weight of 50 g at an element and/or compound density of less than 6 g/cm³.
22. **(Currently Amended)** ~~The method~~Method according to claim 14, wherein ~~characterized in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in a ~~defined, flow-~~optimized geometry.
23. **(Currently Amended)** ~~The method~~Method according to claim 22, wherein ~~characterized in that~~ the flow-optimized geometry enables good transportation of the element or each element or the compound or each compound within the molten mass.
24. **(Currently Amended)** ~~Method~~~~The method~~ according to claim 14, wherein ~~characterized in that~~, during the melting process, the melting crucible is inductively warmed up and/or heated and ~~with this also~~along with the semi-finished product or each semi-finished product and the element or each element, as well as the compound or each compound ~~to be melted in the melting crucible~~.